

Franklin Knolls 1&2

Green Streets



Quick Facts

Watershed:	Anacostia River
Sub-Watershed:	Northwest Branch
Completion Year:	2014
Impervious Area Treated:	6.61 acres
Maryland DNR Trust Fund Grant Award:	\$1,800,000

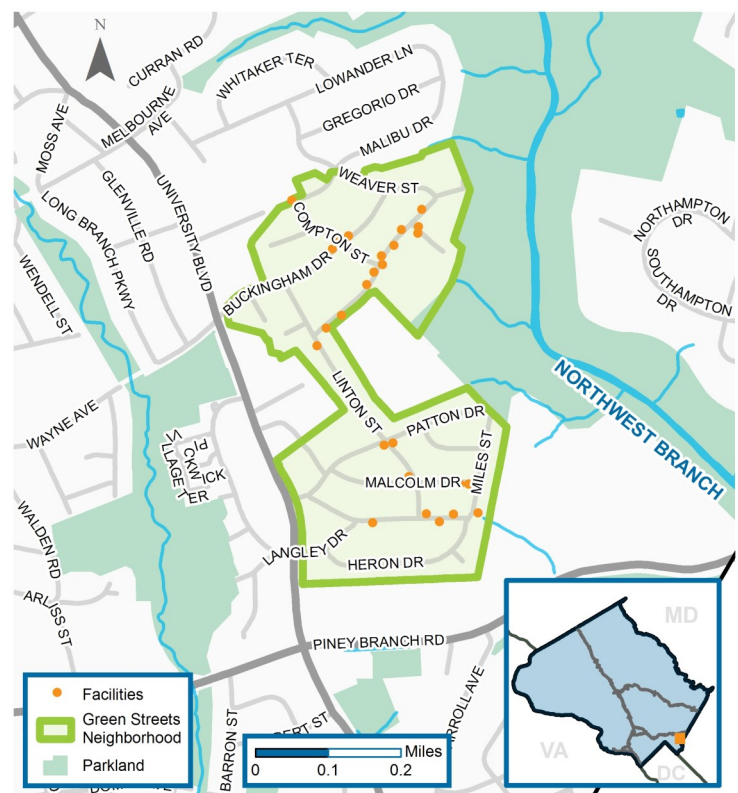
Pre-Restoration Conditions

Much of the development in the lower Northwest Branch watershed occurred before today's stormwater management practices were in place. In older neighborhoods, stormwater runs off roofs, driveways, and roads into storm drains and directly into streams, carrying trash, oils, nutrients, and other pollutants. The runoff also moves rapidly over paved surfaces, causing higher flows during storms, flash flooding, erosion, streambank instability, and degraded habitat.

Design Approach

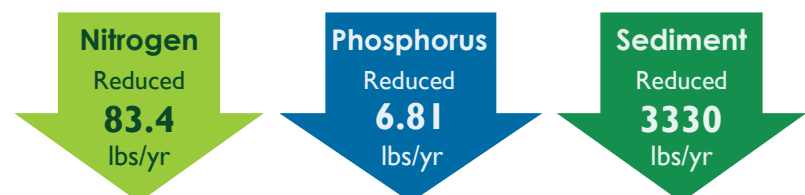
Phases 1 & 2 of the Franklin Knolls Green Streets projects included the Clifton Park and Montgomery Knolls neighborhoods, which did not have any existing stormwater management. The grassy areas next to the road curbs within the rights-of-way presented opportunities for treating stormwater before it enters the storm drain system.

Raingardens, bioretention, bioswales, and tree boxes were installed in the neighborhood. These slow down and filter stormwater runoff flowing off the roadway. Sediment, nutrients, and other pollutants are removed and the volume of runoff is reduced. Captured stormwater infiltrates into the ground, helping recharge local streams and provide healthy habitat for fish.



Water Quality Protection

DEP restoration projects help reduce sediment and nutrient pollution entering local waterways and the Chesapeake Bay.



Planting



Blue flag iris is native to Montgomery County. It has attractive flowers in May/June and does well in raingardens.

Construction



Raingardens were fenced off during construction. Signage provided information on the project.

Before



An grassy area in the right-of-way at the intersection of Daleview Drive and Court was stormwater opportunity.

After



A raingarden and inlet were installed to treat water running off of streets and sidewalks, improving water quality.

Bioretention



A large paved area at the bottom of Langley Drive was a good opportunity for introducing stormwater management. The location is located right above the storm drain outlet to the stream. Here it is pictured under construction, just before it was planted.

Contact Us:

AskDEP@montgomerycountymd.gov



This project was funded by Maryland's Chesapeake & Atlantic Coastal Bays Trust Fund and Montgomery County's Water Quality Protection Charge